

GENERAL NOTES:

1. ALL GRAVITY SEWER LINES SHALL BE SCH. 40 PVC, 1/8" MIN. SLOPE (OR AS SHOWN ON PLANS) AND SHALL CONFORM TO ASTM D-3034 WITH JOINTS CONFORMING TO ASTM D-3212.
2. ALL PRESSURE PIPE SHALL BE SCH. 40 AND SHALL CONFORM TO ASTM D-3241 WITH JOINTS CONFORMING TO ASTM D-3139.
3. THESE DRAWINGS WERE PREPARED IN ACCORDANCE WITH THE LAKE COUNTY DEPARTMENT OF HEALTH REGULATIONS AND OHIO DEPARTMENT OF HEALTH REGULATIONS.
4. INSTALLER IS TO FIELD VERIFY GRADES AND CONSULT THE ENGINEER IN THE CASE OF DISCREPANCY.
5. ALL DISTURBED AREAS SHALL BE GRADED AND SEEDING UPON COMPLETION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DRAINAGE, SHEETING AND SHORING FOR EXCAVATION.
7. TANKS SHALL BE TILED WITH WATER IMMEDIATELY AFTER INSTALLATION TO PREVENT "FLOATING".
8. HOME AERATION TANK TO MEET OHIO DEPARTMENT OF HEALTH AND NSF REQUIREMENTS.
9. SUPPLY FORCE MAINS TO BE INSTALLED GREATER THAN 3'-0" DEEP TO PREVENT FREEZING.

INSTALLATION:
AREAS DESIGNATED FOR INSTALLATION AND REPLACEMENT SHALL BE UNDISTURBED AND BE PROTECTED FROM DAMAGE OR DISTURBANCE. ANY DAMAGE OR DISTURBANCE MAY RESULT IN THE INVALIDATION OF THE DESIGN PLAN. IF DISTURBANCE OR DAMAGE HAS OCCURRED, INSTALLATION SHALL NOT PROCEED AND THE REGISTERED INSTALLER SHALL CONTACT THE OWNER, THE DESIGNER, THE DRAIN DISTRIBUTION RESPONSIBLE PARTY, AND THE BOARD OF HEALTH. INSTALLATION OF THE SUBSURFACE DRAIN TUBING OR PREPARATION OF THE SOIL INFILTRATION INTERFACE FOR AT GRADE OR ELEVATED SAND FILL DRIP FIELDS SHALL NOT PROCEED WHEN THERE IS A RISK OF SMEARING OR COMPACTION.

START-UP:
INSTALLER SHALL CONTACT DESIGN ENGINEER 72 HOURS PRIOR TO START OF CONSTRUCTION. INSTALLER SHALL CONTACT DESIGN ENGINEER IN THE EVENT THAT ANY PORTION OF THE SYSTEM IS CHANGED DUE TO SITE CONDITIONS. DESIGN ENGINEER SHALL APPROVE OF ANY CHANGES. IN THE EVENT THAT CHANGES ARE MADE WITHOUT CONSULTATION WITH THE DESIGNER, THE INSTALLER SHALL TAKE FULL RESPONSIBILITY FOR THE SYSTEM.

MAINTENANCE PERIOD:
THE SYSTEM INSTALLER SHALL BE REQUIRED TO PROVIDE SYSTEM INSPECTION AND MAINTENANCE FOR A PERIOD OF 24 MONTHS FROM START-UP. IN THE EVENT THAT THE SYSTEM DOES NOT OPERATE PROPERLY, THE INSTALLER SHALL CONTACT THE HEALTH DEPARTMENT AND SYSTEM DESIGNER FOR A FIELD VISIT TO DETERMINE CORRECTIVE ACTIONS.

OPERATION AND MAINTENANCE:
THE OWNER OF THIS SYSTEM IS REQUIRED TO MAINTAIN AN O & M SERVICE CONTRACT WITH A REGISTERED SERVICE PROVIDER CERTIFIED BY THE MANUFACTURER. AN OPERATION AND MAINTENANCE MANUAL CAN BE LOCATED ON THE INTERNET AT: <http://www.ohio.gov/ASSETS/183A96C35E06479E858CEFB326DF782E/OMSSDRIP.PDF>

ASSURANCES:
SUBURBAN SEPTIC SERVICES, INC. (800) 888-9975 IS THE RESPONSIBLE PARTY TO PROVIDE ASSURANCES THAT THE PROJECT MEETS THE FOLLOWING:

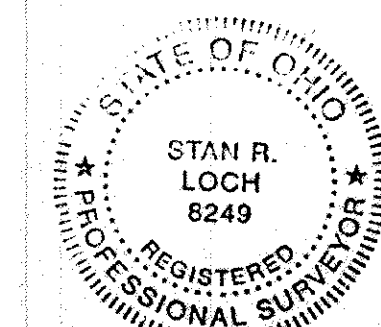
1. ASSURE SITE, SOIL CONDITIONS AND LIMITATIONS REPORTED REPRESENT ACCURATE INFORMATION.
2. ASSURE THESE DESIGN PLANS COMPLY WITH OHIO DEPARTMENT OF HEALTH REGULATIONS.
3. ASSURE PROPER INSTALLATION AND OVERSIGHT AS NECESSARY.
4. ASSURE UPON COMPLETION, A SYSTEM START-UP IS CONDUCTED TO ESTABLISH BASELINE PERFORMANCE AND COMPLIANCE WITH DESIGN SPECIFICATIONS.
5. ASSURE THAT QUALIFIED AND REGISTERED SERVICE PROVIDERS ARE AVAILABLE TO CONDUCT O & M FOR THE ENTIRE SYSTEM THROUGH THE SERVICE CONTRACT REQUIREMENTS.

DRIP TUBING:
MODEL NUMBER - WFC16-4-24
CATALOG NUMBER - PG 1.01

7. THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY CONTOURS AND ELEVATIONS SHOWN HEREON, REPRESENTS AN ACTUAL FIELD SURVEY MADE BY ME ON MAY 4TH, 2012, AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT, AS OF THAT DATE, THEY EXISTED AS INDICATED HEREON.

I FURTHER CERTIFY THAT THIS PLAN WAS PREPARED BY ME FROM AN ACTUAL BOUNDARY SURVEY AND IRON PINS WERE FOUND OR SET AT THE PROPERTY CORNERS AND ALL OF WHICH IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I FURTHER CERTIFY THAT THIS SEWAGE SYSTEM DESIGN MEETS THE MINIMUM REQUIREMENTS ESTABLISHED BY THE LOGIC IN THE HSTS GUIDANCE MANUAL, AND THE REQUIREMENTS AND RECOMMENDATIONS OF THE SYSTEM MANUFACTURER.



CURRENT ZONING: R3-A
MIN. SETBACK: 50'
MIN. SIDEYARD: 20'
MIN. REAR YARD: 50'

DEVELOPER/OWNER:
RAFFAELE DIPIO
1249 BLANCHARD RD
PEPPER PIKE, OHIO 44124
PH: 440-649-2593

EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, AZTECH ENGINEERING AND SURVEYING CO., INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

- NOTES:**
- STREETS ADJACENT TO CONSTRUCTION ENTRANCE SHALL BE CLEANED DAILY.
 - NO FUELING ALLOWED ON SITE
 - ALL CONCRETE TO BE A MINIMUM 3,000 PSI/28 DAYS. DRIVEWAYS MUST BE 8" THICK SACK MIX CONCRETE WITH 7% AIR ENTRAINMENT, AND BE REINFORCED WITH 6"x6" #10 WELDED WIRE MESH, INSTALLED APPROXIMATELY 1" TO 2" FROM BOTTOM OF SLAB.
 - DRAIN SYSTEM INSTALLER TO PROVIDE A GRAVITY DRAIN OUT OF THE HYDRAULIC UNIT, DRAIN TO CONNECT TO HOUSE FOOTER TILE OR DRAIN TO DAYLIGHT.

BENCHMARK
TOP STEM OF HYDRANT
ELEV = 1074.60

THE CONTRACTOR MUST CHECK THE BENCHMARK WITH THE EDGE OF PAVEMENT PRIOR TO DIGGING THE FOUNDATION.

WASTEWATER SYSTEM PROVIDED BY:
SUBURBAN SEPTIC SERVICE, INC.
4229 BECK ROAD
MEDINA, OHIO 44256
(800) 888-9975

SOIL TESTING WAS PERFORMED BY FLOYD E. MCCLARY & RAY BURNS ON MAY 21, 2012. CERTIFICATION # A00000-18357, AOP-1008

(B-1) = SOIL TEST BORING HOLE #1

- LEGEND:**
- = IRON PIN FOUND
 - ✕ = FIRE HYDRANT
 - ⊕ = WATER VALVE
 - △ = OFFSET HUBS
 - = INLET PROTECTION
 - = CATCH BASIN
 - ☆ = LIGHT POST
 - = FLOW DIRECTION
 - = SWALE
 - = TELEPHONE PEDESTAL
 - = CABLE PEDESTAL
 - = TRANSFORMER
 - = EXISTING GRADE
 - = PROPOSED GRADE
 - = SILT FENCE

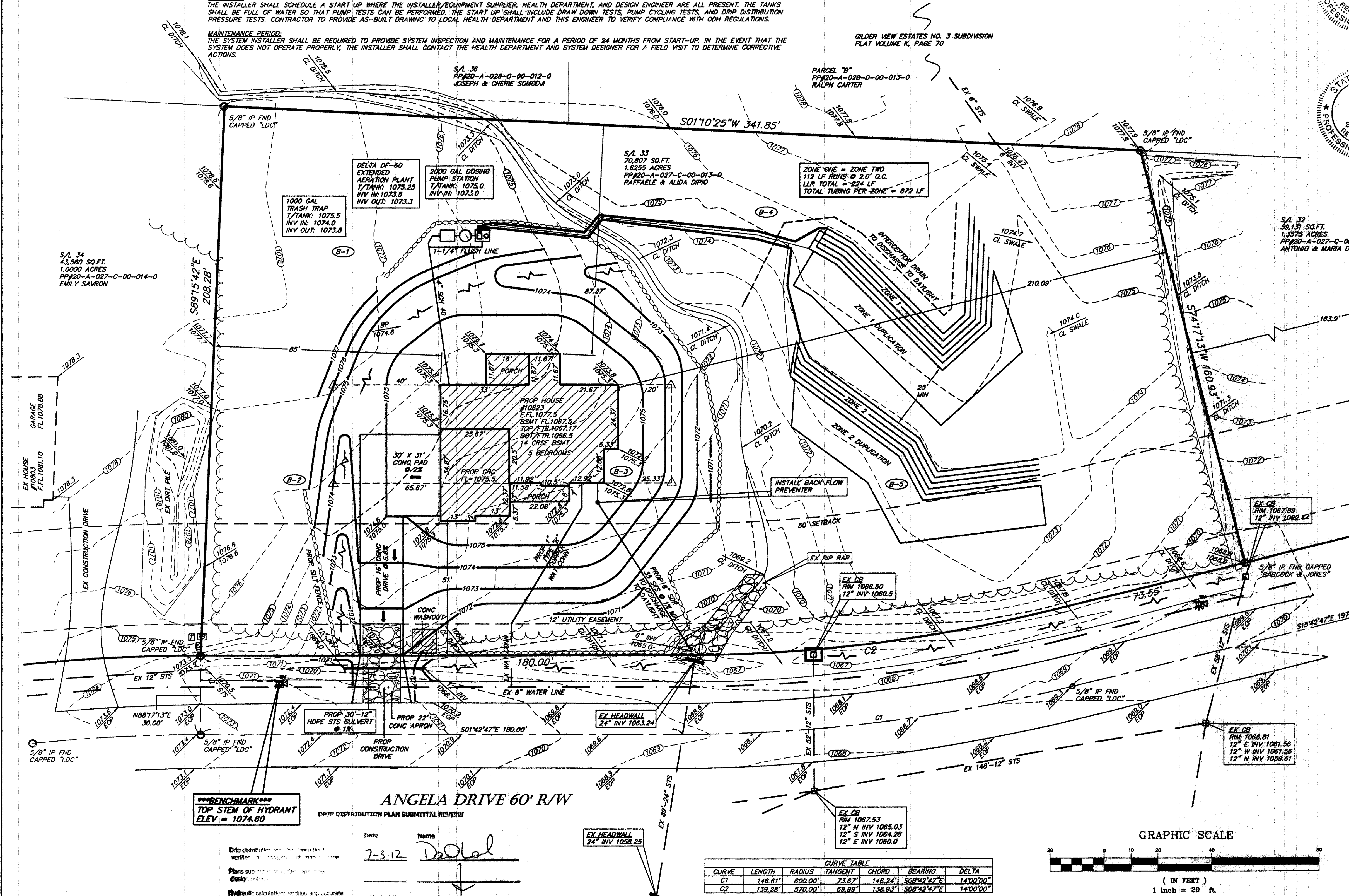
SEQUENCE OF EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAJOR SITE CONSTRUCTION OPERATIONS:

- 1.0 INSTALL CONSTRUCTION DRIVE ENTRANCE
- 1.1 VERIFY THAT ALL PERIMETER CONTROLS ARE IN PLACE
- 1.2 PERFORM CLEARING AND GRUBBING WITHIN CLEARING AREA
- 1.3 PERFORM SCALPING AND STRIPPING OF ALL TOPSOIL WITHIN CLEARING LIMITS
- 1.4 PERFORM EARTHWORK OPERATIONS NECESSARY TO OBTAIN REQUIRED SUBGRADE ELEVATIONS
- 1.5 INSTALL ALL UNDERGROUND UTILITIES
- 1.6 INSTALL INLET PROTECTION AROUND ALL INLET BASINS AND YARD DRAINS AS TO BE CONSTRUCTED
- 1.7 PERFORM TEMPORARY SEEDING OF ALL AREAS OUTSIDE OF PROPOSED PAVEMENT IF CONSTRUCTION ACTIVITY WILL CEASE FOR 21 DAYS
- 1.8 PERFORM FINISHED GRADING
- 1.9 REMOVE INLET PROTECTION
- 1.10 INSTALL PAVEMENT AND PERMANENT SEEDING. PERMANENT SEEDING SHALL OCCUR WITHIN 7 DAYS OF LAST ACTIVITY.
- 1.11 REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AFTER THE ENTIRE SITE IS STABILIZED

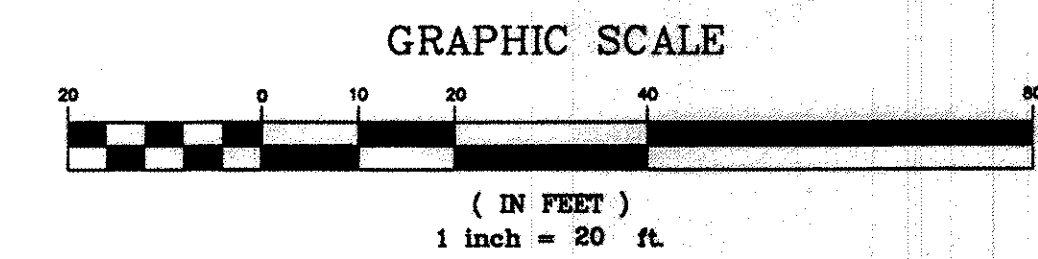
PROJECT DATA:

1. PROJECT DESCRIPTION: THIS PROJECT WILL CONSIST OF SITE CLEARING, GRUBBING, EARTHWORK, UTILITIES AND RESIDENTIAL HOUSE CONSTRUCTION
2. DISTURBED AREA: 0.50 ACRES
3. PRIOR LAND USE: WOODED LOT
4. SITE LOCATION: IN KIRTLAND, OHIO
5. LATITUDE: N 41°34'35"
6. LONGITUDE: W -81°21'27"
7. IMMEDIATE RECEIVING WATERS: CHAGRIN RIVER
8. SUBSEQUENT RECEIVING WATERS: LAKE ERIE
9. CURRENT SOILS: M9b
10. PROPOSED IMPERVIOUS AREA: 0.12 ACRES
11. SITE IMPERVIOUS PERCENTAGE: 7%

48 HOURS BEFORE YOU DIG
Call... 800-362-2764
TOLL FREE
OHIO UTILITIES PROTECTION SERVICE



CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING
C1	146.61'	600.00'	23.67'	146.24'	S08°42'47"E
C2	139.28'	570.00'	68.99'	138.93'	S08°42'47"E



ANGELA DRIVE 60' R/W
DATE: 7-3-12
NAME: D. Dole

SITE PLAN FOR
RAFFAELE & ALIDA DIPIO
10823 ANGELA DRIVE
S/L 33 OF THE GREENBRIER ESTATES SUBDIVISION PH.2 PLAT VOLUME 39, PAGE 23
PLAT VOLUME 39, PAGE 23
CITY OF KIRTLAND, LAKE COUNTY
STATE OF OHIO

5425 WARNER ROAD - SUITE 12
VALLEY VIEW, OHIO 44125
440-602-9071
FAX 216-369-0259

AZTECH
ENGINEERING and SURVEYING
Civil Engineering - Land Surveying

HORIZ. SCALE: 1" = 20'	VERT. SCALE:
DRAWN BY: CL	DATE: 6/18/2012
CHECKED BY: SRL	DRAWING NO.: 20122601
JOB NO.: 20122601	SHEET 1 OF 3

Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By: Date: 7/6/2012